



Specification

AN4240 module (Preliminary)

S	SC	고객명
Drawn	Approval	Approval

Contents

- 1. Part number
- 2. Outline dimensions
- 3. Characteristics
- 4. Bin & Resistor Value





Part number of AN4240 module

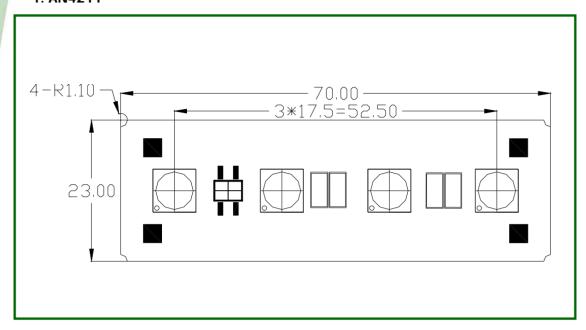
1. Part Number form : A $X_1 X_2 X_3 X_4 X_5$

X ₁	Color	N	Warm white
X ₂	Acriche series	4	A4 series
X_3	Lens type	2	Dome type
		0	100V(AC)
		1	110V(AC)
X_4	Voltage	2	220V(AC)
		3	230V(AC)
		4	50,55V, RMS (Emitter)
		1	4W Compact
v	DCP type	2	4W Square
X ₅	PCB type	3	4W Line
		4	8W Bulb

For more information about binning and labeling, refer to the Application Note -1



1. AN4211



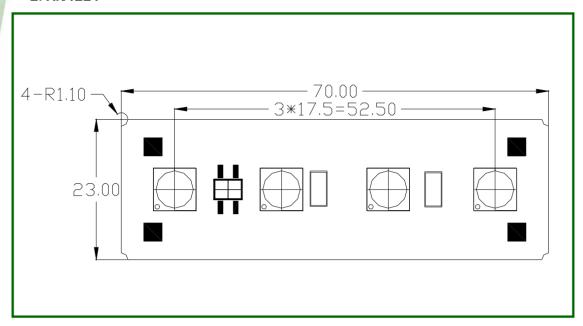


Notes:

- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice



2. AN4221





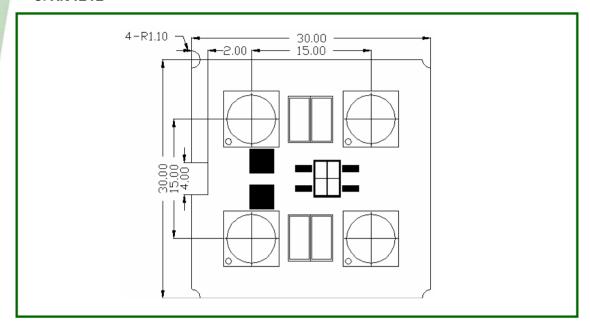
Notes:

- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice





3. AN4212





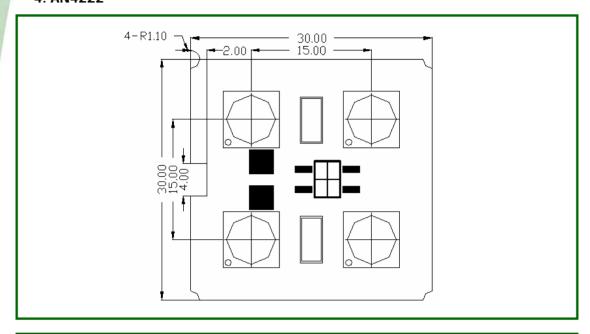
Notes:

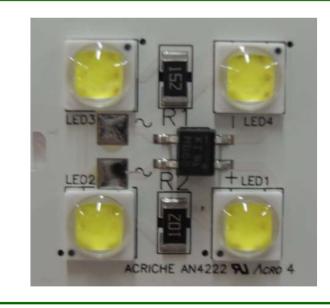
- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice





4. AN4222



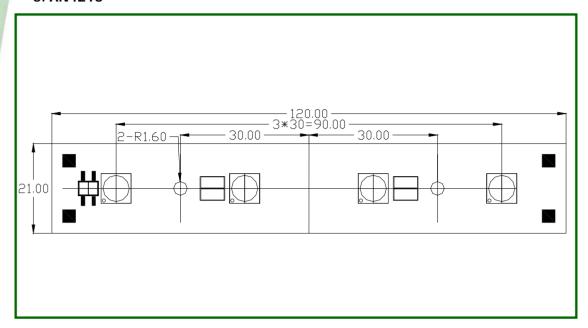


Notes:

- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice



5. AN4213

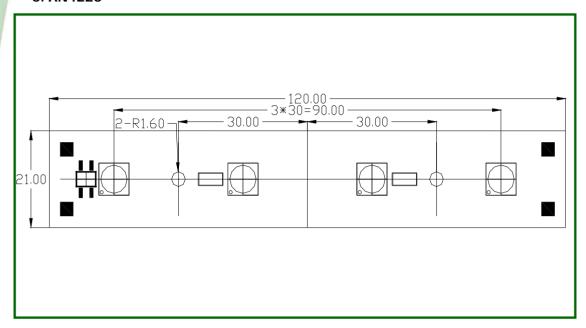




- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice



6. AN4223



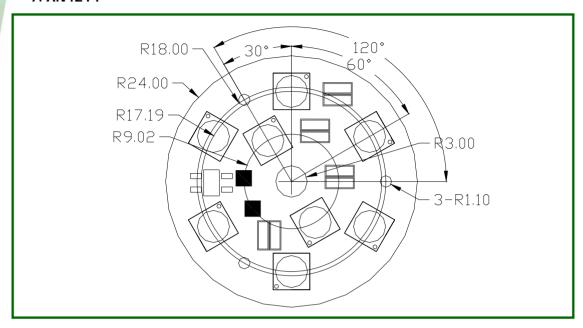


Notes:

- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice



7. AN4214



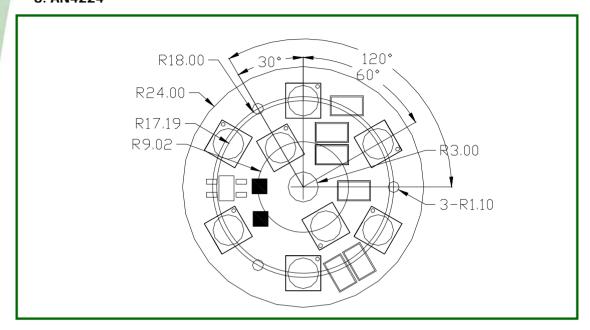


Notes:

- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice



8. AN4224





Notes:

- [1] All dimensions are in millimeters. (Tolerance : ± 0.2)
- [2] Scale: none
- [3] The appearance and specifications of the product may be changed for improvement without notice





1. AN4211/AN4212/AN4213

1-1 Electro-Optical characteristics at 110V[RMS] Ta=25°C

Parameter	Symbol		Value		Unit
Farameter	Symbol	Min	Тур	Max	Offic
Luminous Flux ^[1]	Φ _V ^[2]	-	200	-	lm
Illuminance ^[3]	Ф	-	=	-	lx
Correlated Color Temperature [4]	ССТ	-	3000	-	K
CRI	R_a	-	85	-	-
Operating Current	l _{opt}	-	40	-	mA [RMS]
Power Dissipation	P_{D}		4		W
Operating Frequency	Freq		50 / 60		Hz

1-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Power Dissipation	P_{D}	-	W
Junction Temperature	T _j	125	°C
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +120	°C
ESD Sensitivity	-	±6,000V HBM	-

- [1] Acriche series maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Illuminance is measured at 50cm distance
- [4] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance
- [5] 'Operating Voltage' doesn't indicate the maximum voltage which customers use, but it means tolerable voltage according to the voltage variation rate by one's country. It is recommended that the temperature of solder pad should be below 70 $^{\circ}$ C.





2. AN4221/AN4222/AN4223

2-1 Electro-Optical characteristics at 220V[RMS] Ta=25°C

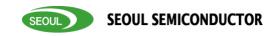
Parameter	Symbol		Value		Unit
Farameter	Symbol	Min	Тур	Max	Offic
Luminous Flux ^[1]	Φ _V ^[2]	-	200	-	lm
Illuminance ^[3]	Ф	-	=	-	lx
Correlated Color Temperature [4]	ССТ	-	3000	-	K
CRI	R_a	-	85	-	-
Operating Current	l _{opt}	-	20	-	mA [RMS]
Power Dissipation	P_{D}		4		W
Operating Frequency	Freq		50 / 60		Hz

2-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Power Dissipation	P_{D}	-	W
Junction Temperature	T _j	125	°C
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +120	°C
ESD Sensitivity	-	±6,000V HBM	-

- [1] Acriche series maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Illuminance is measured at 50cm distance
- [4] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance
- [5] 'Operating Voltage' doesn't indicate the maximum voltage which customers use, but it means tolerable voltage according to the voltage variation rate by one's country. It is recommended that the temperature of solder pad should be below 70 $^{\circ}$ C.





3. AN4214

3-1 Electro-Optical characteristics at 110V[RMS] Ta=25°C

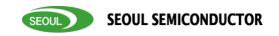
Parameter	Cumbal		Value		Unit
Farameter	Symbol	Min	Тур	Max	Offic
Luminous Flux ^[1]	Φ _V ^[2]	-	400	-	lm
Illuminance ^[3]	Ф	-	-	-	lx
Correlated Color Temperature [4]	ССТ	-	3000	-	K
CRI	R_a	-	85	-	-
Operating Current	l _{opt}	-	80	-	mA [RMS]
Power Dissipation	P_{D}		8		W
Operating Frequency	Freq		50 / 60		Hz

3-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Power Dissipation	P_{D}	-	W
Junction Temperature	T _j	125	°C
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +120	°C
ESD Sensitivity	-	±6,000V HBM	-

- [1] Acriche series maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Illuminance is measured at 50cm distance
- [4] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance
- [5] 'Operating Voltage' doesn't indicate the maximum voltage which customers use, but it means tolerable voltage according to the voltage variation rate by one's country. It is recommended that the temperature of solder pad should be below 70 $^{\circ}$ C.





4. AN4224

4-1 Electro-Optical characteristics at 220V[RMS] Ta=25°C

Parameter	Symbol		Value		Unit
Farameter	Symbol	Min	Тур	Max	Offic
Luminous Flux ^[1]	Φ _V ^[2]	-	400	-	lm
Illuminance ^[3]	ΦΙ	-	=	-	lx
Correlated Color Temperature [4]	ССТ	-	3000	-	K
CRI	R_a	-	85	-	-
Operating Current	l _{opt}	-	40	-	mA [RMS]
Power Dissipation	P_{D}		8		W
Operating Frequency	Freq		50 / 60		Hz

4-2 Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Power Dissipation	P_{D}	-	W
Junction Temperature	T _j	125	°C
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +120	°C
ESD Sensitivity	-	±6,000V HBM	-

- [1] Acriche series maintains a tolerance of $\pm 10\%$ on flux and power measurements.
- [2] Φ_V is the total luminous flux output as measured with an integrated sphere.
- [3] Illuminance is measured at 50cm distance
- [4] Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram. CCT $\pm 5\%$ tester tolerance
- [5] 'Operating Voltage' doesn't indicate the maximum voltage which customers use, but it means tolerable voltage according to the voltage variation rate by one's country. It is recommended that the temperature of solder pad should be below 70 $^{\circ}$ C.



VF Bin & Resistor Value

	VF Bin	R1, R3	R2, R4	
	А	3000	3000	
AN4211	В	2700	3000	
AN4212 AN4213	С	2000	3300	
	D	2000	2700	
	VF Bin	R1	R2	
	А	1500	1500	
AN4221	В	1000	1800	
AN4222 AN4223	С	1000	1500	
	D	1000	1300	
	VF Bin	R1, R3, R5, R7	R2, R4, R6, R8	
	А	3000	3000	
ANI404 4	A B	3000 2700	3000 3000	
AN4214				
AN4214	В	2700	3000	
AN4214	B C	2700 2000	3000 3300	R2, R6
AN4214	B C D	2700 2000 2000	3000 3300 2700	R2, R6 4420
	B C D VF Bin	2700 2000 2000 R3, R5	3000 3300 2700 R1, R4	
AN4214 AN4224	B C D VF Bin A	2700 2000 2000 R3, R5 820	3000 3300 2700 R1, R4 4420	4420





Precaution for use

- [1] Acriche series run on high voltage such as 110 V or 220 V.
- [2] Please don't touch the PCB surface, which has built-in terminals and chips, with your hands or metals, while Acriche series is running.
- [3] Please don't add or change wires, while Acriche series is running.
- [4] LED ASS'Y should be attached to customer product properly and be careful twist or bend when it is assembled.
- [5] LED ASS'Y should be kept from mechanical or electrical shock cause physical damage to the module.
- [6] Do not disassemble the module.
- [7] During processing, mechanical stress on the surface should be minimized as much as possible. Sharp object of all types should not be used to pierce the LED resin.

ESD protection

- (1) Ionizer, earthing and keeping appropriate humidity are necessary for work
- (2) Anti-static glove and grounded band must be used.

Storage

- (1) Do not leave the module in high temperature and humidity conditions. Normal condition is recommended to store the moudule. ($0^{\circ}C \leq Ta \leq 70^{\circ}C$, relative humidity $\leq 70\%$)
- (2) Keep the module out of the direct rays of the sun.

Operation

The module should be operated under the given forward voltage. When the module is operated in the excessive voltage or current conditions, the LEDs mounted on the PCB could be burned out.

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